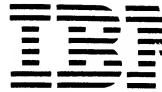
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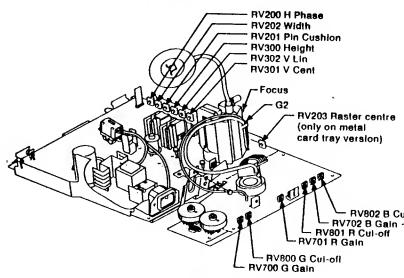
Problem/Symptom	Fallura Check/FRU Replacement
All problems	Before replacing any FRUs, check att connections and associated items for continuity.
Resier missing and green LED not lit	Replace card assembly
Raster missing, but greèn LED liashes during attempt to power on	Replace card assembly
Rasier missing, but green LED tit	Check It CRT heater is glowing:
	No — replace card assembly, but it tauli persists replace CRT
	 Yes — turn G2 potentiometer clockwise. It a raster appears, reedjust the video gain, and cut-oft potentiometer it possible, otherwise replace card assembly. It no raster eppears, replace the CRT.
Raater visible but one or two colors missing	Turn the video 'cut-oit' or 'gein' controls for the missing color(s) clockwise. It the color(s) reappear, reedjust the video gain end cut-oil potentiometer it possible, otherwise replace the card essembly. It he colors do not eppear, replace the CAT.
Rasier visible but is loo narrow, or does not till the bezet verifically.	Replace card assembly.

Problem/Symptom	Fatture Check/FRU Raptecement
No E-W pincushion correction.	Turn RV201 to check whether readjustment to posetite, otherwise, replace the card assembly.
Data does not center horizontally	Turn RV200 H.PHASE to check whether readjustment is possible, otherwise, teplace the card assembly. NOTE: On units with a metal card tray, first adjust RV203 to center the background raster, then RV200. If the leutt persisis, raptaca the CRT.
Data does not synchronize hortzontally.	Reptace the interface cable. If the fault persists, replace the card assembly.
Data has insutticient width.	Turn RV202 WIDTH to check whether readjustment is possible, otherwisa replace the card assembty.
Data does not synchronize verticelly.	Replace the intertace cable, it the tauti persists, teplece the card assembly.
Data hes insufficient hetght.	Turn RV300 HEIGHT to check whether readjustment is possible, otherwise, replace the card assembly.
Data does not cenier verticelly.	Turn RV301 V.CENT to check whether readjustment is possible, otherwise, replace the card assembly. If the tautt persists, replace the CRT.
Vertical linearity poor.	Turn RV302 V.LIN to check whelhar readjustment to possible, otherwise, replace the card assembly.
Hortzontel linearily poor.	Replace the card assembly.
Cotor(s) missing.	Replace the intertace cable. If the tault porsists, replace the card assembly. If the leuit still persists, replace the CRT.
Maximum while point poor.	Make sure the brightness control is the the center detent position. Readjust RV700 G.GAIN, RV701 R.GAIN, and RV702 B.GAIN, to determine whether the correct white color can be obtained, otherwise replace the card assembly.

Problem/Symptom	Fallura Chack/FRU Raptacament
Minimum white point poor.	Make aure the brightness control is in the center detent position. Readjust RV800 G.CUT-OFF, RV801 R.CUT-OFF and RV802 B.CUT-OFF, to determine whether the correct white color can be obtained. If not, replece the card assembly.
Convergence poor.	Reptace the CRT.
Focus poor.	Turn the tocus potentiometer to see it readjustment is posable. It not, replace the card assembly, it the tault persists, replace the CRT.

Focus and Cut-Off Adjustment





Note: It the geometry is reset, if may be necestrightness setting.

Pincushion

- 1 Press the F2 tunction key, then press the retease both keys).
- 2 Adjust the SIDE-PINCUSHION potentiongeometricetty reguler square.

Hortzontal Centering

- 1 Press the F2 tunction key, then press end keys (then refeese both keys).
- 2 Note: Before doing this step, it you ere s a metel card tray, adjust RV203 first to co the bezel.

Adjust the 'RV200 H.PHASE' potentiomet pattern horizontally on the screen.

Vertical Linearity

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- 1 Press the F2 function key, then press and hold the keys (then release both keys).
- Adjust the 'RV302 V.LIN' potentiometer to get squ width.

Horizontal Width

- 1 Press the F2 function key, then press and hold the keys (then release both keys).
- 2 Adjust the 'RV202 WIDTH' to get a horizontal widt

Vertical Centering

- 1 Press the F2 function key, then press and hold the keys (then release both keys).
- 2 Adjust the 'RV301 V.CENT' potentiometer to centing pattern vertically on the screen.

Vertical Height

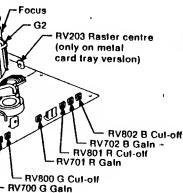
- Press the F3 function key, then press and hold the keys (then release both keys).
- 2 Adjust the 'RV300 HEIGHT' potentiometer to get a

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RV200 H Phase
RV202 Width
RV201 Pin Cushion
RV300 Height
RV302 V Lin
RV301 V Cent



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If the geometry le reset, it mey be necessery to reedjust the less setting.

Press the F2 function key, then press the ALT end F1 keys (then release both keys).

Adjust the SIDE-PINCUSHION potentiometer RV201 to get a geometricelly reguler square.

intel Centering

Press the F2 tunction key, then press end hold the SHIFT end F5 keys (then release both keys).

Noie: Belore doing this step, it you are servicing e disptay with e metel cerd trey, edjust RV203 tirst to centretize the rester in the bezel.

Adjuet the 'RV200 H.PHASE' potentiometer to centralize the pattern horizontally on the screen.

key, then press and hold the ALT and F1 oth keys).

.IN' potentiometer to get squares of equal

key, then press and hold the SHIFT and F5 oth keys).

DTH' to get a horlzontal width of 207 mm.

key, then press and hold the SHIFT and F5 oth keys).

CENT' potentiometer to centralize the the screen.

key, then press and hold the SHIFT and F5 oth keys).

IGHT' potentiometer to get a height of 155

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1 Set the brightness control to maximum.

2 Set the contrast control to maximum.

3 Turn RV800 G.CUT-OFF, RV801 R.CUT-OFF, and RV802 B.CUT-OFF fully clockwise.

4 Press the F10 function key (on the PS/2 keyboard) to select a blank screen pattern on the display.

5 Turn the G2 potentiometer on the EHT transformer stowty clockwise until the first color appears. Turn the associated cutoff potentiometer fully counterclockwise.

6 Continue turning the G2 potentiometer clockwise until the second color appears. Turn the associated cutoff potentiometer fully counterclockwise also.

7 Continue turning the G2 potentiometer clockwise until the third color appears.

8 Readjust the first and second cutoff potentiometers and G2 to get the following white luminance and chromaticity:

cd/m² x y (CIE COORDS) 2+1.0/-0 0.245+/-0.010 0.263+/-0.010

Notes:

a. Green cutoff potentiometer (RV800) clockwise predominantly increases y.

 Red cutoff potentiometer (RV801) clockwise predominantly increases x.

c. Blue cutoff potentlometer (RV802) clockwise predominantly decreases both x and y.

9 Set the brightness control to center detent. Turn RV700 G.GAIN, RV701 R.GAIN, and RV702 B.GAIN to mid position.

10 To set Focus, press the F3 key, then press and hold the ALT and the F1 keys (then release both) to get a 5 x 5 grld. Adjust Focus control on flyback transformer for the sharpest Image.

Press the F3 key, then the F4 key, then the F8 key, to select a white raster pattern and by using RV700 G.GAIN, RV701 R.GAIN, and RV702 B.GAIN only, set the center screen luminance and chromaticity with the Minolta TV Color Analyzer to:

cd/m² x , y (CIE COORDS) 120 to 150 0.313+/-0.010 0.329+/-0.010

Notes:

a. Red gain potentiometer clockwise predominantly increases
 x.

b. Green galn potentiometer clockwise predominantly increases y.

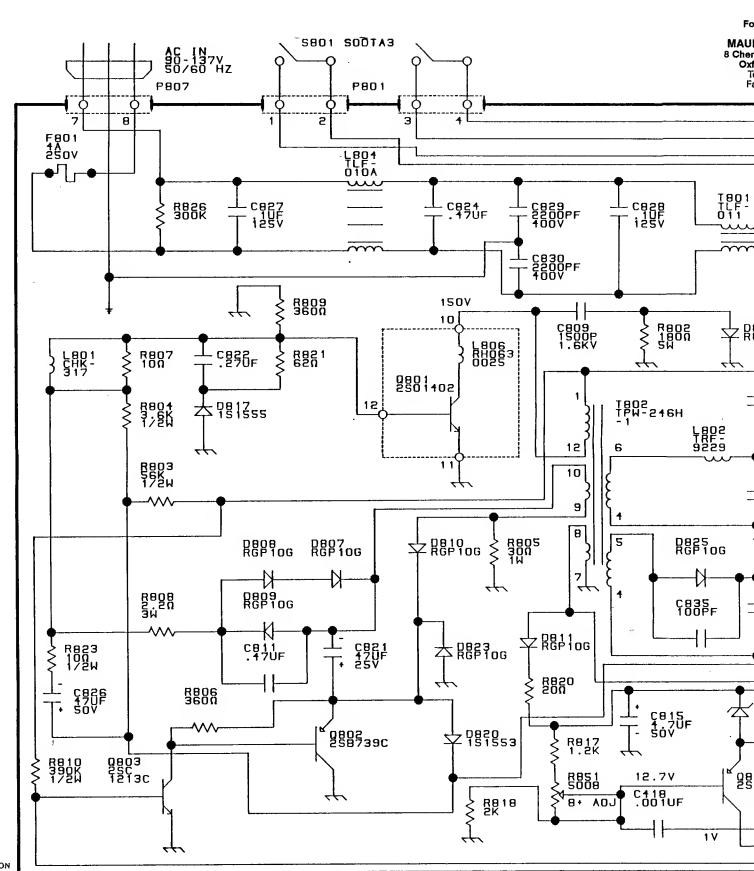
 Blue gain potentiometer clockwise predominantly decreases both x and y.

d. Clockwise rotation of all gain potentiometers increases Y (brightness).

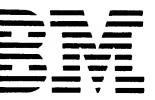
12 Press the F3 key, then press and hold the SHIFT and the F5 keys (then release both keys) to select a white crosshatch pattern again. Set the center screen brightness to 70 cd/m² using the contrast control. Check the dimensions and adjust if necessary.

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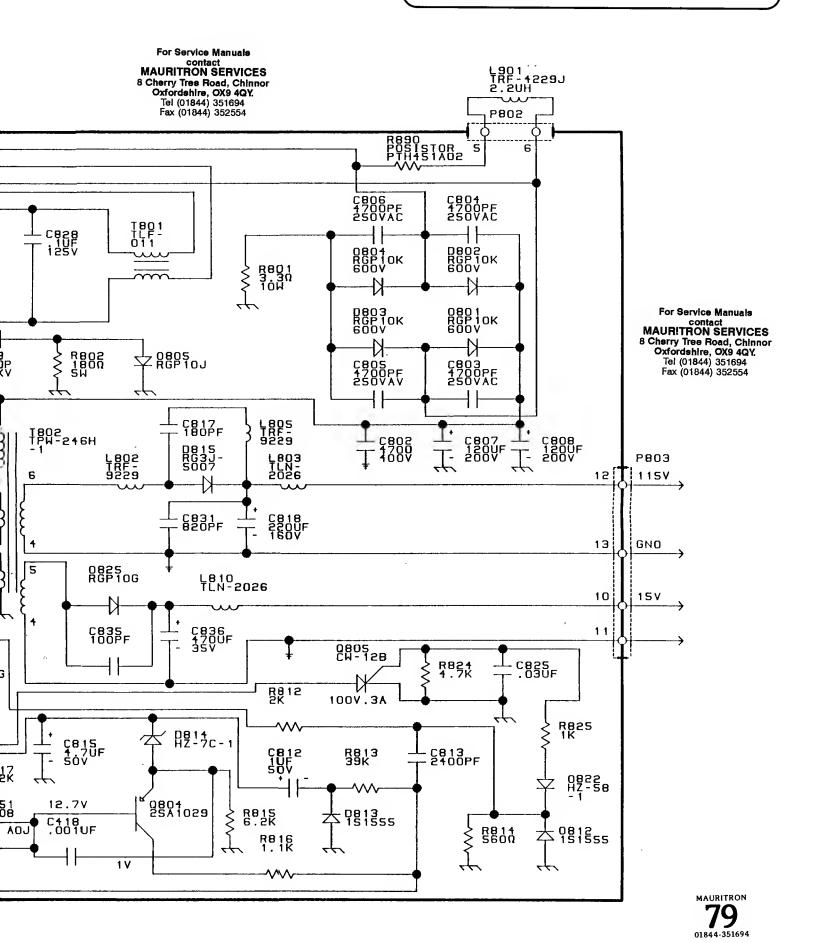


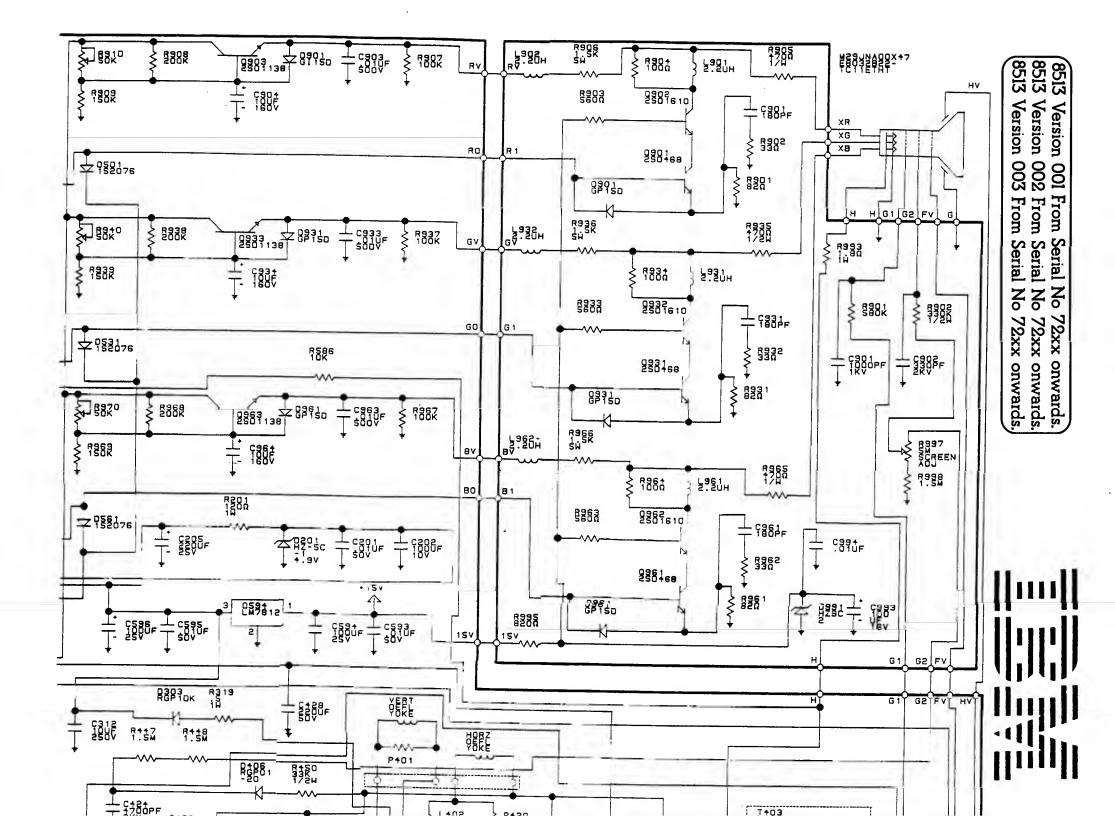


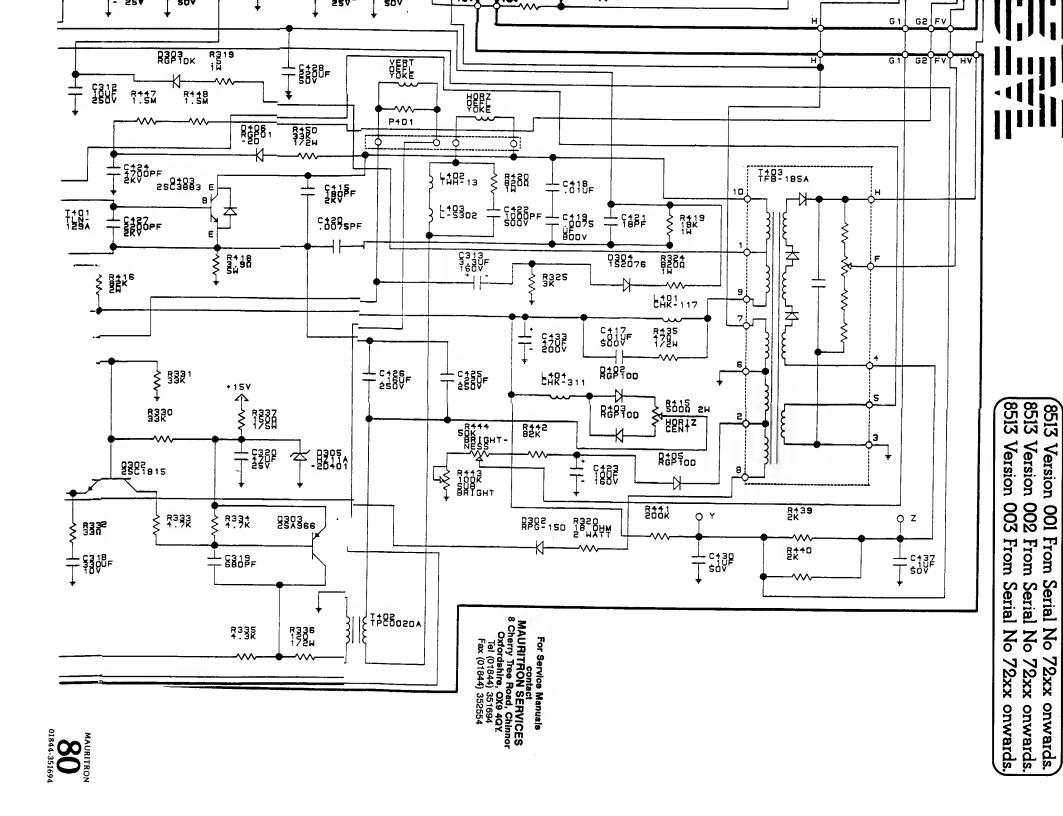
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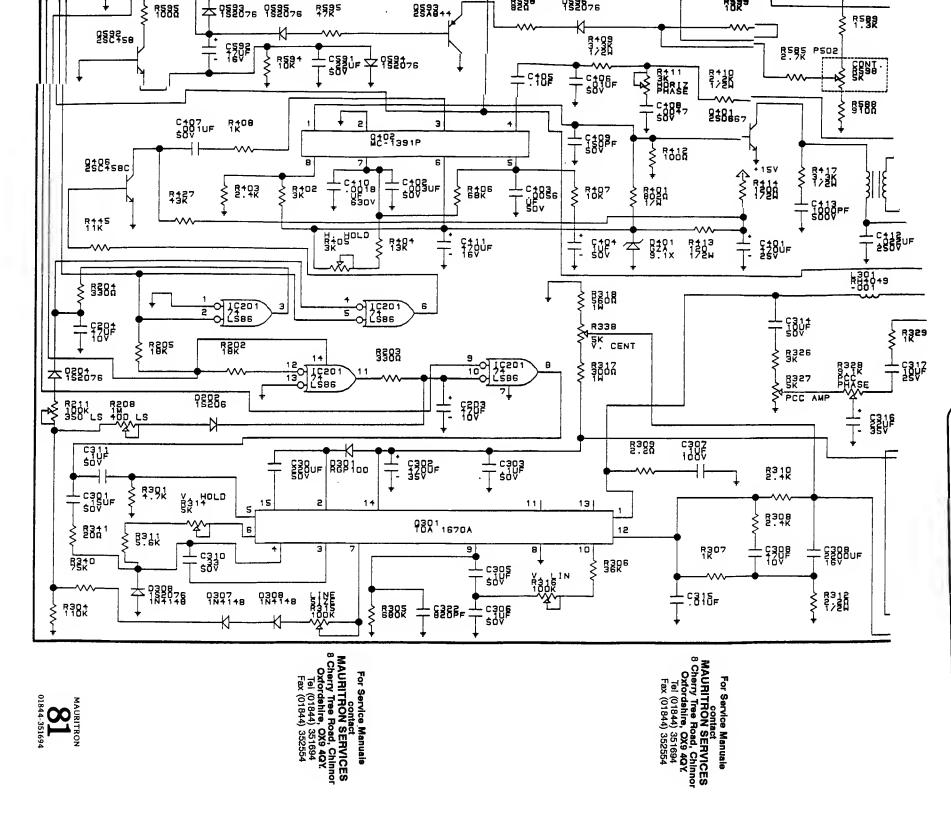




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